

What is claimed is:

1. An image processing device comprising:
a first extraction means that extracts the image of a prescribed part from an input image,
a second extraction means that extracts a part of said prescribed part extracted by said first extraction means as a higher-resolution image, and
a tracking means that tracks the image of said prescribed part so that said second extraction means can continuously extract the image of said prescribed part from the image extracted by said first extraction means.
2. The image processing device of claim 1 wherein said device has a display control means that causes the input image to be displayed as an image whose left and right are reversed.
3. The image processing device of claim 1 wherein said device has a display control means that causes a prescribed image that is different from said input image to be displayed, and causes this image to be changed in correspondence with the image extracted by the second extraction means.
4. The image processing device of claim 3 wherein said device has a means that corrects the position extraction of the image extracted by a second extraction means with respect to a prescribed image that is different from the input image.
5. The image processing device of claim 3 wherein said device has a means that corrects the expression extraction of the image extracted by a second extraction means with respect to a prescribed image that is different from the input image.
6. The image processing device of claim 3 wherein the prescribed image displayed by the display control means is different from the input image and is an image in virtual reality space.
7. The image processing device of claim 1 wherein the input image is an image that is output from a video camera.
8. The image processing device of claim 7 wherein
the prescribed part that the first extraction means extracts from an input image is the eyes or mouth of a user imaged by video camera.
9. The image processing device of claim 1 wherein the first extraction means performs processing in which the prescribed part of the image is extracted from the input image by pyramid filter processing.

10. The image processing device of claim 1 wherein the first extraction means performs processing in which the prescribed part of the image is extracted from the input image by inter-frame difference processing.
11. An image processing method comprising
a first extraction step that extracts the image of a prescribed part from an input image,
a second extraction step that extracts as a higher-resolution image, a part of the prescribed part extracted in the first extraction step, and
a tracking step that tracks the image of the prescribed part so that in the second extraction step the image of the prescribed part can be continuously extracted from the image extracted in the first extraction step.
12. A distribution medium comprising a program that causes processing to be executed on an image device including
a first extraction step that extracts the image of a prescribed part from an input image,
a second extraction step that extracts a part of the prescribed part extracted in the first extraction step as a higher-resolution image, and
a tracking step that tracks the image of the prescribed part so that in the second extraction step the image of the prescribed part can be continuously extracted from the image extracted in the first extraction step.
13. The distribution medium according to claim 12 wherein the program is provided with in addition to a recording medium such as magnetic disk, CD-ROM, or solid memory.